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ADVISORY COUNCIL
SUBCOMMITTEE ON MANUAL OF PROCEDURES

Thursday
September 21, 1978
10:00 A.M.

939 Ellis Street
San Francisco
California 94109

M I N U T E S

COMMITTEE MEMBERS PRESENT:	Shirley J. Campbell, Joseph D. Coons, Hiram Wolch.
COMMITTEE MEMBERS ABSENT:	John L. Nicholson, Lowell V. Smith.
STAFF MEMBERS PRESENT:	Dario Levaggi, Wayman Siu.

- - -

In the absence of Chairperson Smith, Mr. Coons called the meeting to order at 10:05 A.M.

APPROVAL OF MINUTES OF AUGUST 31, 1978

The minutes were approved as received.

REVIEW OF AIR MONITORING PROCEDURES - VOLUME VI.

Ground Level Monitoring for Hydrogen Sulfide and Sulfur Dioxide

1.1 - Delete last sentence.

1.2 - Line 11 - period after " limits."
Delete last sentence.

1.2.1 - Line 3 - Change "1.0" to "1.00."

1.2.2 - Line 4 to read "ppm (vol), or to 0.2 ppm (vol).

1.2.3 - Line 3 - a comma after "arc."
Delete last sentence.

1.3 - Line 2 - Delete ", in the judgment of the APCO."
Line 17 - to read " shall, for the purposes of District requirements, be deemed ...from which the emissions occur."

1.4 - Last sentence to read "APCO may require submission of maintenance records."

1.5 - to read: Calibration

Regulation 1-510 requires that the person responsible for monitoring perform periodic calibrations to assure that the instruments provide acceptable monitoring of ground level concentrations. Additionally, a field calibration shall be preformed after any relocation of an analyzer or major repair work. For sulfur dioxide the reference method for calibration is specified in Section 1.5.6 of this volume; for hydrogen sulfide, in Section 1.5.7.

As a quality assurance measure, District personnel will periodically inspect sites, and may perform calibration audits on the ground level monitors to determine accuracy. Accuracy of a calibration is expressed as the deviation between the analyzer response obtained under test conditions and that of a reference procedure when samples of the same test gas are taken at approximately the same time. Deviation is calculated as a percent of the reference results.

$$\% \text{ Deviation} = \frac{\text{Analyzer value} - \text{Reference value}}{\text{Reference value}} \times 100$$

The acceptable limit for sulfur dioxide analyzer calibrations is $\pm$ 10% deviation. The acceptable limit for hydrogen sulfide analyzer calibrations is $\pm$ 15% deviation.

A record of unacceptable calibrations will be considered failure to meet the requirement. The APCO may require submission of calibration records.

1.5.1 - Line 11 - Change "referee" to "reference."
Lines 13 and 14 to read:
"... contained in this volume are used to verify test gas concentrations."
Lines 19-21 - to read:
"...the instrument should be corrected to make its response conform to the ..."
Line 23 - to read:
"zero and up scale instrument responses....."

1.5.2 - Line 5 to read: ".... or by properly ...."

Delete last sentence.

1.5.3 - Line 4 to read, "....The test gas is prepared by thoroughly mixing...."
Line 5 to read: "calibration gas and diluent air in various known proportions."
Line 8 , add: containing a suitable concentration gas.

Paragraph 4 to read as follows:

Pressurized Gas Standards

Gas standards in pressurized cylinders can be used as a gas source to be diluted in a calibration gas system or used directly when the concentration is within the operating range of the analyzer. Cylinders can be prepared in the laboratory or obtained commercially in various concentrations with or without analysis based on reference methods. Such gas standards should be restandardized against the reference method at a minimum of once every six months. Reference samples must be taken each time if a nonstandardized gas source is used in the performance of an instrument calibration.

Paragraph 5 to read as follows:

Permeation Device

A permeation device, based on the diffusion of a gas through a plastic membrane, can be used as a gas source in a calibration gas system. The difusion rate is a function of temperature and therefore constant temperature must be maintained throughout the calibration. Permeation devices are available commercially with or without analysis based on the reference method. Certified permeation devices should be standardized gravimetrically or against the accepted reference method at a minimum of once every six months. Reference samples must be taken each time if a nonstandardized permeation device is used.

Paragraph 6 to read:

"Storage....atmosphere, preferably between 22-25° C."

Paragraph 6 - b - to read:

"Use of a dry, analyte-free purified...."

1.5.5 - Line 1 to read, "calibration records shall be maintained containing the information...."

1.6 - to read: Reporting

Data recorded by the required instrumentation shall be examined at least once every seven days to determine whether the allowable limits have been exceeded, and to determine whether the instrumentation has operated properly. Instrument downtime exceeding a continuous 24 hour period and recorded data exceeding allowable limits shall be reported to the APCO within the next normal working day following examination.

A summary of data obtained during each calendar month shall be submitted to the APCO within 30 days following the end of the month. The summary shall include excesses over allowable limits, mass emission rate from sources, and notations for instrument downtime or other loss of data.

Atmospheric Sampling of ~~Ground-Level-Lead-Concentrations~~

2.1 - Delete last sentence.

2.2 - Change heading to read, "Mass Emission Limitation"

Line 1 to read, "Mass Emission Limitations Required to Meet Regulation 6-1-302 shall be....."

Line 2 - Delete the words: "from workbook"

2.3.1 - to read: Instrument Specification

High-volume samplers, as described in Appendix B, "Reference Method for the Determination of Suspended Particulates in the Atmosphere (High-Volume Method)", Federal Register, Vol. 36, No. 84, Friday, April 30, 1971, shall be fitted with a control device which will cause the sampler to operate only during those periods when the ambient airflow to the sampler is from a specified sector.

2.3.2 - Delete last sentence.

2.4 - Line 1 - Change "will" to "shall"

Delete lines 12 through 17 beginning with, "samplers shall be... and May 1 of each year."

Line 24 to read, "property on which the emission occurs unless the person responsible for monitoring agrees that such location shall, for the purposes of the District requirements, be deemed off the property from which the emissions occur."

2.6 - to read: "Care and maintenance shall be such that the instruments will function properly and record the lead concentrations in the area."

2.7 - First sentence to read - " Calibrations shall be performed to assure that the volume of air samples is accurately known."

2.8 - to read: "Lead collected on the filters shall be determined by laboratory procedure no. 4 "Determination of Lead Content of Atmospheric Particulant Matter." The APCO may require submission of high-volume samples for comparative analysis."

2.8.1 - Deleted.

2.8.2 - Renumbered 2.8.1 and rewritten as follows:

Arithmetic means of lead concentrations shall be computed from all samples obtained during a 30 day period. Two separate arithmetic means shall be computed, one for all the background samples and one for all samples influenced by the source. All means shall be running means, updated at each subsequent twenty-four-hour sample.

Delete, "Sample Volume Calculation"

2.9 - to read:

A summary of data obtained from a sampling in analysis, and from the meteorological instrumentation, shall be submitted to the APCO within 30 days following the end of the month."

TIME AND PLACE OF NEXT MEETING

10:00 A.M. Thursday, October 5, 1978, 939 Ellis Street, San Francisco, California.

The meeting adjourned at 3:30 P.M.

Respectfully submitted,

Mabel Harder
Secretary

MH:ht

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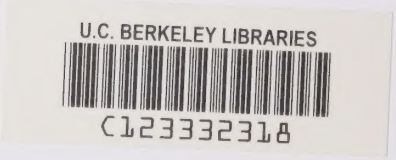

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